US ERA ARCHIVE DOCUMENT

U.S. Department of Commerce

National Oceanic and Atmospheric Administration National Ocean Service



OFFICE of RESPONSE and RESTORATION

Observations and Documentation Case Study

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Visual Observation Photo Documentation

Basic
Inexpensive
Simple Equipment needs

Follow-Up Study on Oiled Vegetation Cutting Along the Delaware River

Edwin Levin
Jay Pickney
Todd Montello

The Spill

- Vessel ----> T/V Canadian Liberty
- Location----> Fort Mifflin, PA (Sun Refinery)
- Product----> Heavy Venezuelan Crude Oil
- Quantity ----> ~50 barrels (~2,100 gallons)
- Cause -----> Overfilled tanks
- Impacts -----> 12 kilometers (8 miles) NJ shoreline

- Year long study
- Monitored the recovery

Establish Monitoring Sites

- Unoiled
- Oiled cut
- Oiled uncut

Establish Survey Period

- Minimum time to show change
- Water height
- Growing season

Determine Transects

- Start and end points
- Length
- Repeatable



Topographic Profile

- Changes thru erosion
- Document water level

Oil Measurements

- Correlate oil levels to impacts
- Standard and consistent descriptions



Document Response

- Where
- How
- Results



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Vegetation

- Type
- Condition
- Density

1997 Vermillion Parish Burn



Sediment

- Type
- Grain size

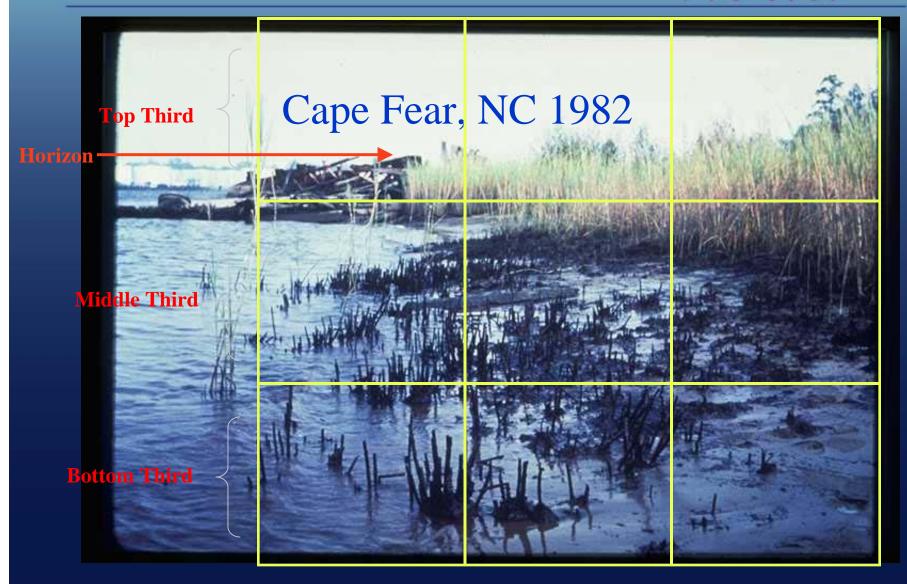
Photographic Documentation

- Repeatable
- Correct Technique

Composition

noaa

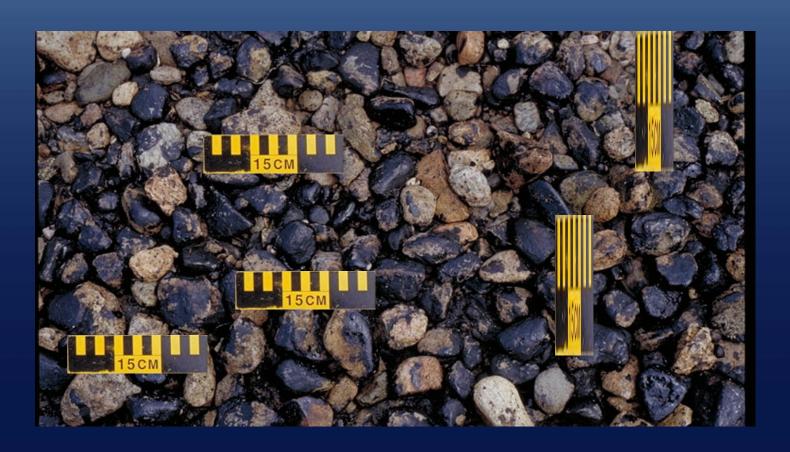








Where to put the Photo Scale



Where to put the Photo Scale

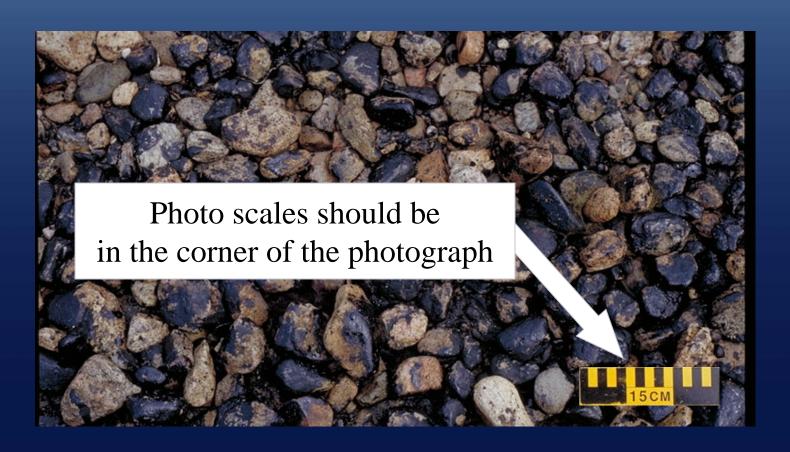


Photo Scale Exceptions...

 Larger scale photographs

 Measurement of specific feature





Misleading Photographs



Field Bag Equipment



QUESTIONS



NOAA website: http://response.restoration.noaa.gov